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## (54) MULTI-CARRIER TRANSMITTER

(57) In the present invention, clip distortions generated when a received multicarrier signal is converted into a digital signal by an A/D 22 are regarded as additive noise, and the positions and number of clip distortions are detected by a DET 28 on the basis of the output from the A/D 22. The difference values between information symbols at two ends of a received block sig-

nal on the frequency axis, which is output from a DFT 24 and known zero symbols are obtained by subtractors 26 and 27. A CAN 25 estimates the magnitudes of clip distortions from the difference values and the detection result of the position and number of clips and cancels the clip distortions.

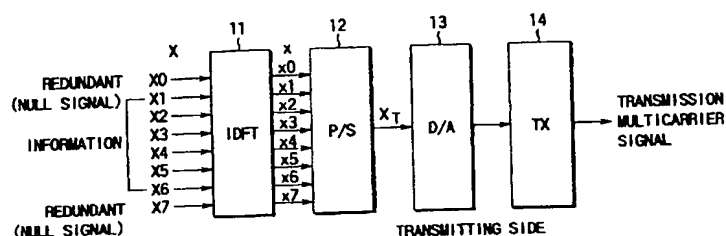


FIG. 2A

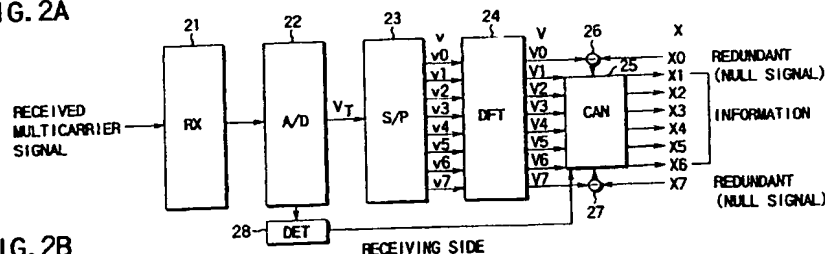


FIG. 2B

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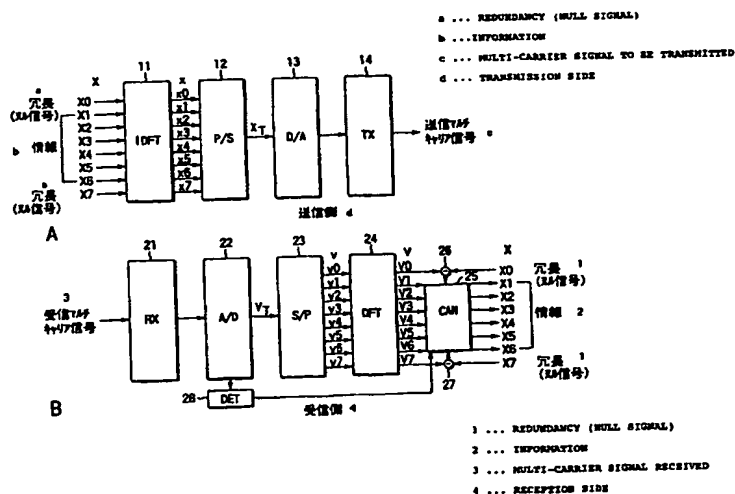
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(54) Title: MULTI-CARRIER TRANSMITTER

(54) 発明の名称 マルチキャリア伝送装置



## (57) Abstract

A multi-carrier transmitter, wherein a DET (28) finds the locations where clip distortions occur when a received multi-carrier signal is converted into a digital signal and the number of clip distortions by means of an A/D (22) from the output of the A/D (22) while regarding the clip distortions as additional noise. Then subtractors (26, 27) find the difference values between the information symbols at both ends of a received block signal on a frequency axis outputted from a DFT (24) and a known zero symbol, and a CAN (25) estimates the magnitudes of the clip distortions from the difference values and the locations and number of clip distortions and eliminates the clip distortions.